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APPLICATION NO	Э.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,015		10/31/2003	Takashi Nakamura	101154-00014	7149
4372	75	590 03/18/2005		EXAMINER	
		KINTNER PLOTK	METZMAIER, DANIEL S		
1050 CONNECTICUT AVENUE, N.W. SUITE 400				ART UNIT	PAPER NUMBER
WASHIN	GTO	N, DC 20036	1712		
				DATE MAILED: 02/19/200	e

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
	Office Action Summers	10/698,015	NAKAMURA ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Daniel S. Metzmaier	1712					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 🛛 🖪	Responsive to communication(s) filed on 10/31/2003 & 3/3/2004.							
2a)□ T	his action is FINAL . 2b)⊠ This	s action is non-final.						
3)□ S	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
С	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5)□ C 6)⊠ C 7)□ C	4) ☐ Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to.							
Application Papers								
9)⊠ TI	ne specification is objected to by the Examine	er.						
10)⊠ The drawing(s) filed on <u>31 October 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority un	der 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
3) 🛛 Informa	of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Io(s)/Mail Date <u>10/31/03</u> .	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)					

DETAILED ACTION

Claims 1-3 are pending.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) filed October 31, 2003 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Drawings

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "10" or "11" in Fig. 1 and "100" or "110" in paragraph [0017]-[0019] of the specification have both been used to designate molten metal and test specimen, respectively. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37

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CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

4. The disclosure is objected to because of the following informalities: paragraphs [0017]-[0019], which reference the molten metal as (100) and test specimen as (110) in Fig. 1(a) and (b) do not have corresponding denotations to said references in Fig. 1(a) and (b).

The reference cited but not provided in the IDS, JP 2,898,437, is cited in paragraphs [0002] and [0003] of the instant specification. A database search in Derwent Abstracts, and JPO databases fails to provide a published reference corresponding to said citation. Applicants should check said citation for correctness of the patent number and/or provide an explanation of the source of the subject matter referenced therein.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Adams, Jr et al, US 6,136,085. Adams, Jr et al (examples) disclose calcium carbonate particles

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coated with silica, i.e., SiO₂. The limitation of the material as a foaming agent would have been inherent to the Adams, Jr et al reference powders since the powders are otherwise indistinct from the claims and carbonate are well known to decompose at elevated temperatures to form carbon dioxide gas.

7. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Howard, Jr, US 4,187,210. Howard, Jr (example 49) disclose calcium carbonate particles coated with silica, i.e., SiO₂. The limitation of the material as a foaming agent would have been inherent to the Howard, Jr reference powders since the powders are otherwise indistinct from the claims and carbonate are well known to decompose at elevated temperatures to form carbon dioxide gas.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Metzmaier whose telephone number is (571) 272-1089. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Business Center (EBC) at 866-217-9197 (toll-free).

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Daniel S. Metzmaier Primary Examiner

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DSM